

Utah Weekly Pertussis Update

2012 data, through MMWR week ending November 24 (MMWR week 47)

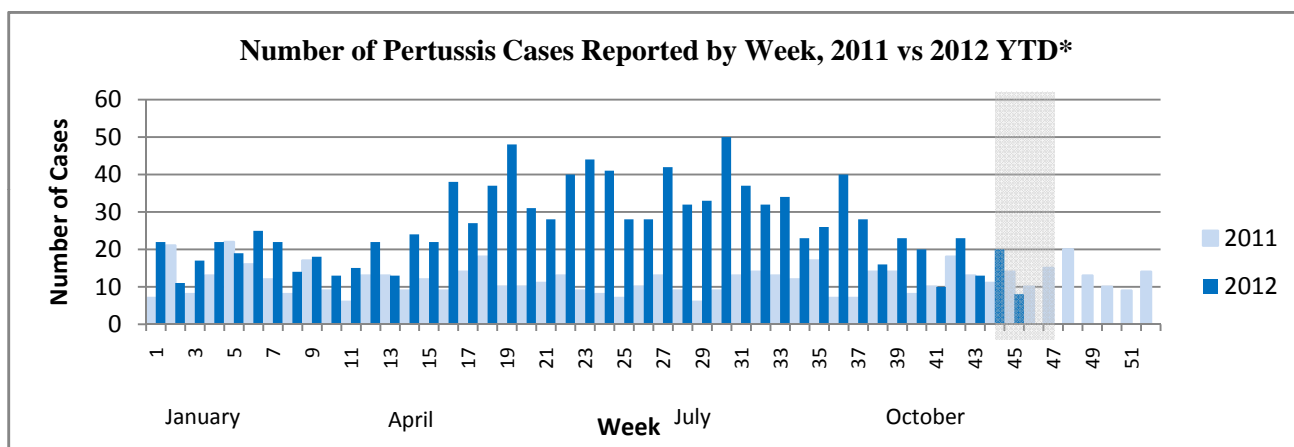
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2012 year-to-date (YTD)	1179	Utah Incidence rate, 2012 year-to-date (YTD) per 100,000 person-years	45.9
Total number of cases reported 2011	618	Utah Incidence rate, 2011 per 100,000 person-years	21.7
Number of cases reported in past week	33	National Incidence rate, 2012 per 100,000 person-years (As of 9/20/12)	9.3
Total number of cases reported, through same time period 2011	537	National Incidence rate, 2011 per 100,000 person-years	6
Age groups with the highest rates	<1 year 5-14 years	Cases in infants <1 year	114

Of the 1179 cases reported, 35 (3%) have been hospitalized. 1 death has been reported due to pertussis in 2012.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2012 Year-to-Date Incidence Rates, By Age

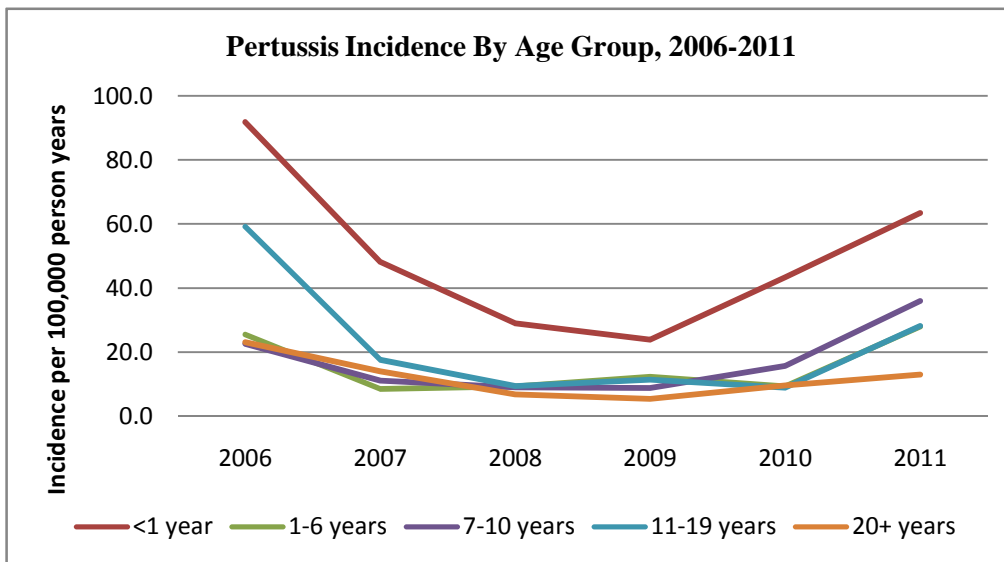
Age (years)	2012 Cases	2010 population	Rate*
<1	114	55,242	228.9
1-4	163	217,411	83.2
5-14	404	476,561	94.1
15-24	128	459,367	30.9
25-34	89	471,944	20.9
35-44	113	346,255	36.2
45-54	81	322,009	27.9
55-64	46	241,232	21.2
65+	41	257,876	17.6
Total	1179	2,847,897	45.9

* Rate is calculated per 100,000 person years

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

Rates by Age Group, Utah 2006-2011

NOTE: Previous weekly reports included 2009 rates that were artificially elevated due to an error in the data; as of Oct 18, 2012, this has been corrected



Utah's rates among different age groups is comparable to national figures, which can be found at: <http://www.cdc.gov/pertussis/surv-reporting.html>

School Age Incidence Rates, 2012 Year-to-Date

Grade	Age (years)	Cases	2010 Population	Rate*
Preschool	3-4	82	106,218	85.6
Kindergarten	5	34	52,765	71.5
1	6	35	51,948	74.7
2	7	34	50,811	74.2
3	8	36	50,547	79.0
4	9	38	49,081	85.9
5	10	64	46,857	151.5
6	11	53	44,949	130.8
7	12	36	43,944	90.9
8	13	33	43,111	84.9
9	14	41	42,548	106.9
10	15	37	41,611	98.6
11	16	17	41,935	45.0
12	17	19	42,317	49.8

* Rate is calculated per 100,000 person-years

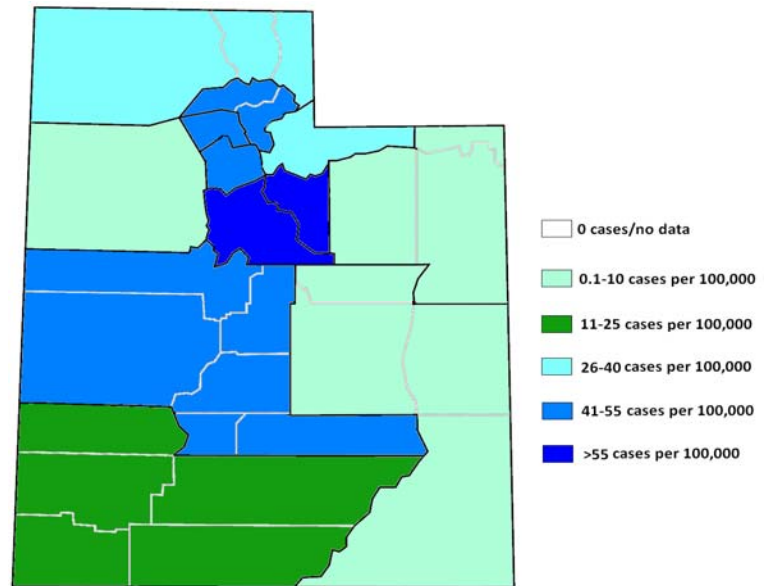
School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

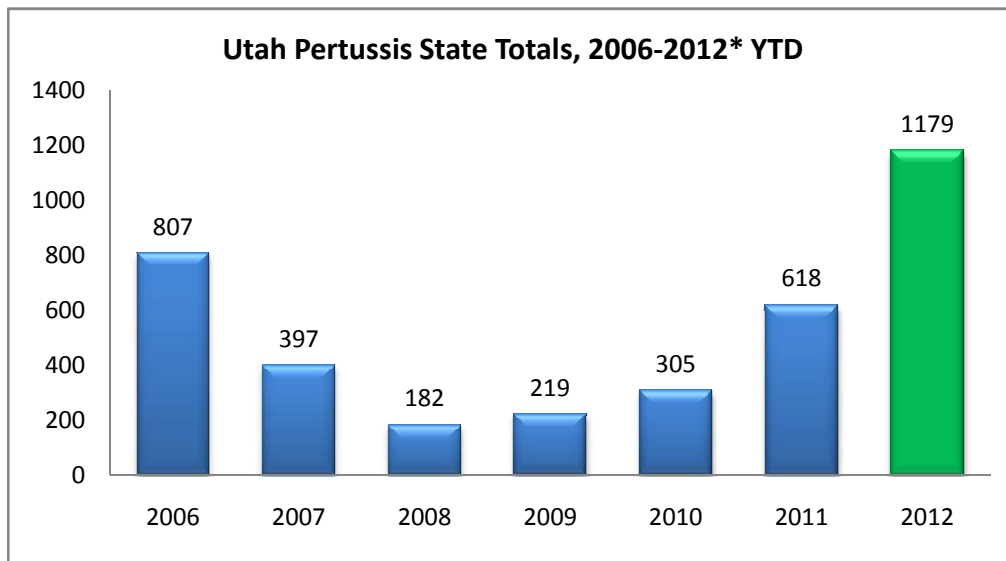
Incidence of pertussis by Local Health Department, 2012 YTD

Local Health Department	2012 Cases	Rate*
Bear River	58	38.1
Central Utah	37	52.8
Davis County	131	46.4
Salt Lake Valley	484	50.7
Southeastern Utah	2	3.9
Southwest Utah	31	16.0
Summit County	10	27.0
Tooele County	4	7.4
TriCounty	3	6.6
Utah County	274	56.2
Wasatch County	31	144.3
Weber-Morgan	114	52.4

* Rate is calculated per 100,000 person-years using 2010 Utah population estimates



Utah Case Counts of Pertussis, 2006-2012



2006 was the last year with a notably elevated number of pertussis reports in Utah and the U.S. Pertussis tends to be cyclical, and reports have been increasing in Utah since 2009.

* 2012 data includes pertussis cases reported year to date. 2006-2011 data reflects cases reported during the entire calendar year for each year.